CLAIMS

We claim:

1. An electrical audio processing system for processing a plurality of electrical source signals and converting said plurality of electrical source signals into an audio broadcast, said electrical audio processing system transported by a vehicle having an interior compartment surrounded by a vehicle exterior which protects said interior compartment from the vagaries of moisture, mud, dirt and debris during transport, comprising:

a means for providing electricity to said electrical audio processing system;

a means for selecting at least one input signal from said plurality of electrical source signals;

a means for amplifying said selected at least one input signal;

a means for dividing said at least one input signal into a plurality of frequency segregated output components;

a means for converting a first one of said plurality of frequency segregated output components into a low frequency audible sound wave; and

a means for selectively conducting low frequencies within said low frequency audible sound wave from said converting means through said vehicle exterior in a first direction while attenuating frequencies other than said low frequencies;

whereby said low frequencies are conducted to said vehicle exterior without coupling to said vehicle.

2. The electrical audio processing system of claim 1 wherein said vehicle is self-propelled by a self-contained motive power system.

3. The electrical audio processing system of claim 2 wherein said means for providing electricity further comprises a means for inducing electricity from self-contained motive power system motive power and a means for distributing said induced electricity solely to said electrical audio processing system.

4. The electrical audio processing system of claim 3 further comprising a means for storing a sufficient quantity of said induced electricity for powering said electrical audio processing system through a broadcast of a coherent audio program without inducing additional electricity from said inducing means during said coherent audio program.

5. The electrical audio processing system of claim 1 further comprising a means for changing a second one of said plurality of frequency segregated output components into a high frequency audible sound-wave of frequency higher than said low frequency audible sound wave; and

a means for selectively conducting high frequencies within said high frequency audible sound wave from said changing means through said vehicle exterior in a first direction.

6. The electrical audio processing system of claim 1 further comprising a second means for selectively conducting low-frequencies within said low frequency audible sound wave from said converting means through said vehicle exterior in a second direction different from said first direction.

7. The electrical audio processing system of claim 1 further comprising a means for controlling said amplifying means and said selecting means from a remote location to control said selecting and said amplifying.

8. The electrical audio processing system of claim 1 further comprising a means for forming an electrical signal from an audible sound; and

a means for conveying said formed electrical signal to said selecting means to serve as a one of said plurality of electrical source signals.

9. The electrical audio processing system of claim 8 wherein said audible sound comprises a human voice, and said formed electrical signal is selected by said selecting means, whereby said human voice is amplified and broadcast through said vehicle exterior into public areas.

10. The electrical audio processing system of claim 8 wherein said forming and conveying means comprise a wireless diversity microphone.

11. A full-feature remote broadcast vehicle which is continuously setup and which is simultaneously secured against theft and vandalism in operation and while idle, comprising:

a player mounted within said vehicle for converting a pre-recorded audio signal into a first electrical signal representative of said pre-recorded audio signal;

a broadcast receiver mounted within said vehicle which receives broadcast signals representative of an audio program and converts said broadcast signals into a second electrical signal representative of said audio program;

a microphone which transmits an electrical transmission signal generated by said microphone representative of an audible input to said microphone;

a microphone transmission receiver mounted within said vehicle which receives said microphone transmission signal and converts said microphone transmission signal into a third

electrical signal representative of said audible microphone input;

an electrical source mounted within said vehicle for providing electrical energy;

a remotely controlled selector switch mounted within said vehicle for selecting at least one of said first electrical signal, said second electrical signal and said third electrical signal as a selected input and passing said selected input through to an output;

a loudspeaker mounted within said vehicle for converting said selector switch output to an audible sound wave;

a port coupled from said loudspeaker through said vehicle exterior which emanates said audible sound wave exterior to said vehicle in a first direction and which selectively enhances a narrow bandwidth of said low frequency audible sound wave; and

a remote control which receives human input from a point removed from said broadcast vehicle and responsive thereto variably controls said remotely controlled selector switch.

12. The remote broadcast vehicle of claim 11 further comprising an infra-red communications link between said remote control and said remotely controlled selector switch.

13. The remote broadcast vehicle of claim 11 wherein said port comprises a tuned port which selectively enhances a narrow low frequency bandwidth of said audible sound wave.

14. The remote broadcast vehicle of claim 13 further comprising additional loudspeakers mounted within said remote broadcast vehicle for converting electrical signals into additional audible sound waves; and

additional tuned ports for coupling said additional audible sound waves through said vehicle

exterior which selectively enhance additional narrow bandwidths.

15. The remote broadcast vehicle of claim 13 further comprising a second tuned port coupled from said converting means through said vehicle exterior which emanates said low frequency audible sound wave exterior to said vehicle in a second direction different from said first direction.

16. The remote broadcast vehicle of claim 11 further comprising an up-link mounted within said vehicle for transmitting said selector switch output to a central broadcast facility for further retransmission therefrom.

17. The remote broadcast vehicle of claim 11 wherein said electrical source comprises an electrical alternator which is isolated from an electrical system used by said vehicle for traffic signaling.

18. The remote broadcast vehicle of claim 11 further comprising a battery bank mounted within said vehicle for storing said electrical energy.

19. The remote broadcast vehicle of claim 11 wherein said player is selected from a CD player, a tape player and a DVD player.

20. The remote broadcast vehicle of claim 11 wherein said broadcast receiver further comprises a broadcast radio receiver.

21. The remote broadcast vehicle of claim 11 wherein said microphone transmission receiver receives said electrical transmission signal without wires through at least two reception paths.

22. The combination of a speaker for converting electrical signals to audible sounds and a vehicle having an exterior body forming an enclosed space within said vehicle and having access portals through which a human may pass for entry into said enclosed space and exit therefrom, wherein the improvement comprises:

a cross-over for dividing said electrical signals into a low frequency component and a high frequency component of relatively higher frequency than said low frequency component;

a speaker housing enclosing said speaker and blocking emanation of audible sounds directly from said speaker into an ambient exterior to said speaker housing; and

a tuned port for selectively transmitting a limited bandwidth of said audible sounds from said enclosed space through said exterior vehicle body.

23. The combination of a speaker and a vehicle of claim 22 further comprising a second tuned port for selectively transmitting a limited bandwidth of said audible sounds from said enclosed space through said exterior vehicle body.

24. The combination of a speaker and a vehicle of claim 23 wherein said second tuned port transmits said audible sounds in a direction different from said first tuned port.

25. The combination of a speaker and a vehicle of claim 24 further comprising a third tuned port for selectively transmitting a limited bandwidth of said audible sounds from said enclosed space

through said exterior vehicle body in a direction different from said first and second tuned ports.